SAW Filter 782 MHz BW 10 MHz SMD 1.4 x 1.1mm
MODEL NO.:TA2641A REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitive Level: Level 3 (MSL3)
6. ESD 50V(MM), 100V(HBM).

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

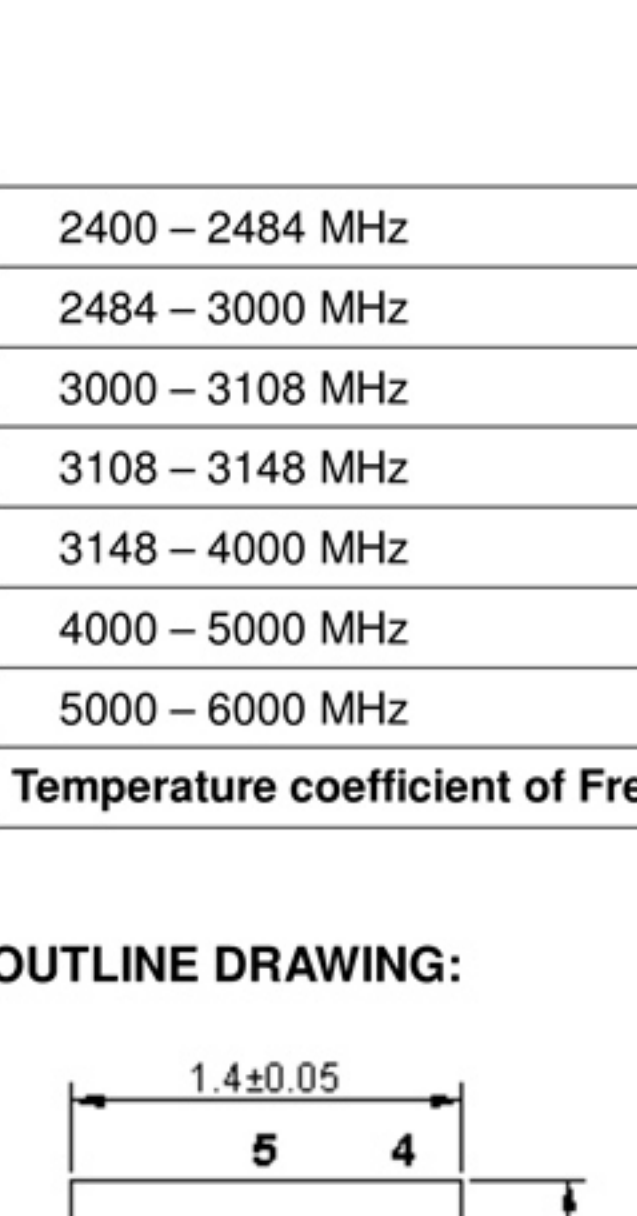
Terminating source impedance: $Z_S = 50\ \Omega$

Terminating load impedance: $Z_L = 50\ \Omega$

Item	Unit	Min	Typ.	Max
Center frequency	MHz	-	782	-
Insertion Loss (777.0 – 787.0 MHz)	dB	-	2.0	3
Amplitude Ripple (777.0 – 787.0 MHz)	dB	-	0.2	1.5
VSWR (777.0 – 787.0 MHz)	dB	-	2.0	2.3
Attenuation (Reference level from 0 dB)				
10 – 716 MHz	dB	40	49	-
716 – 728 MHz	dB	40	46	-
728 – 746 MHz	dB	40	43	-
758 – 768 MHz	dB	-	20	-
768 – 775 MHz	dB	-	2.2	-
793 – 805 MHz	dB	-	7	
746 – 756 MHz	dB	30	38	-
808 – 818 MHz	dB	25	37	-
869 – 894 MHz	dB	45	50	-
1554 – 1585 MHz	dB	35	40	-
1597 – 1607 MHz	dB	35	40	-
1805 – 1880 MHz	dB	30	36	-
1930 – 1990 MHz	dB	30	36	-
2110 – 2170 MHz	dB	20	35	-
2331 – 2361 MHz	dB	20	35	-

2400 – 2484 MHz	dB	20	33	-
2484 – 3000 MHz	dB	20	31	-
3000 – 3108 MHz	dB	20	30	-
3108 – 3148 MHz	dB	20	30	-
3148 – 4000 MHz	dB	20	25	-
4000 – 5000 MHz	dB	15	25	-
5000 – 6000 MHz	dB	5	23	-
Temperature coefficient of Frequency	ppm/K	-36		

C.OUTLINE DRAWING:



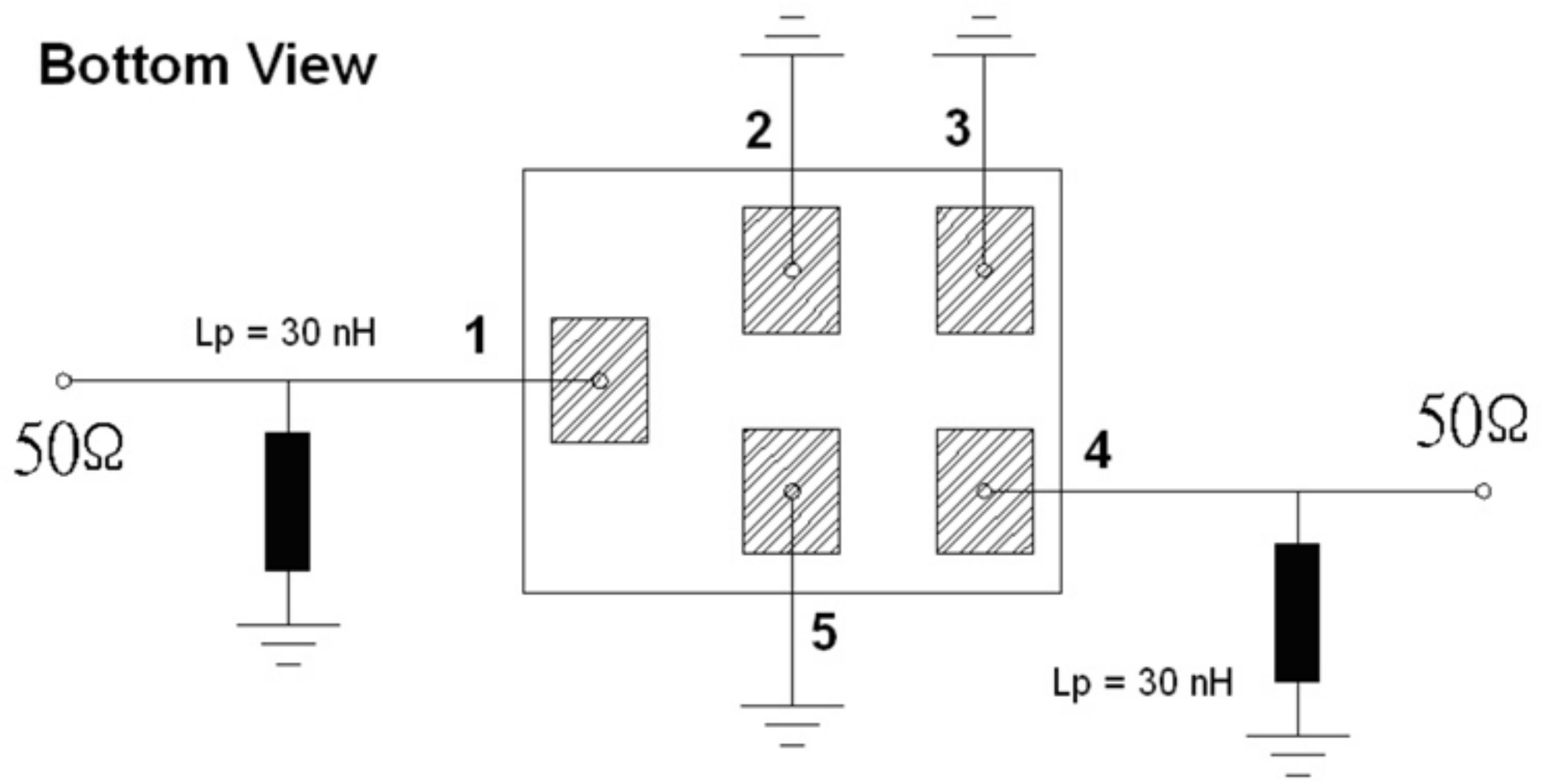
All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2014	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2015	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2016	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2017	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2018	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2019	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2020	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

D. MEASUREMENT CIRCUIT:

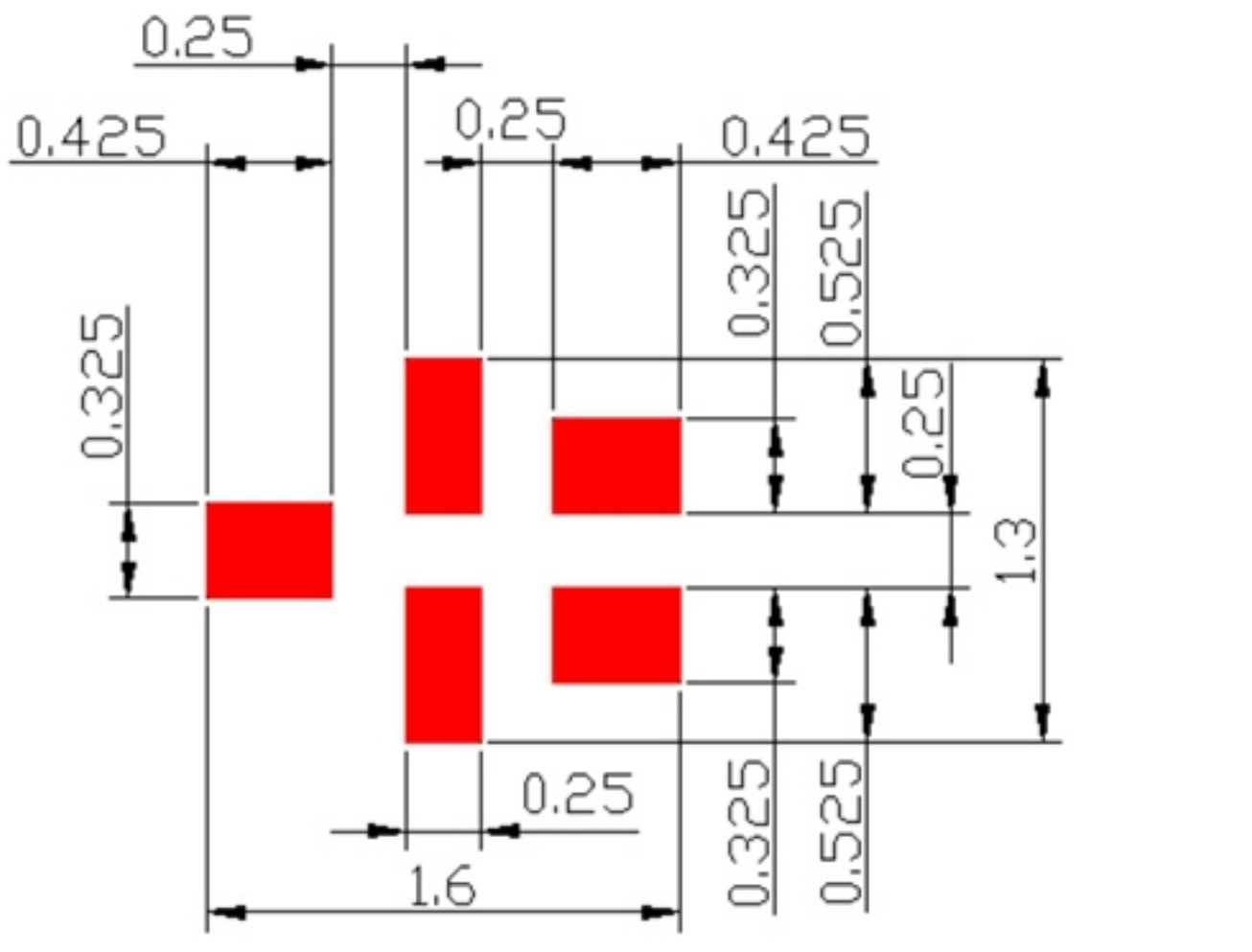


(1): Unbalance Port

(4): Unbalance Port

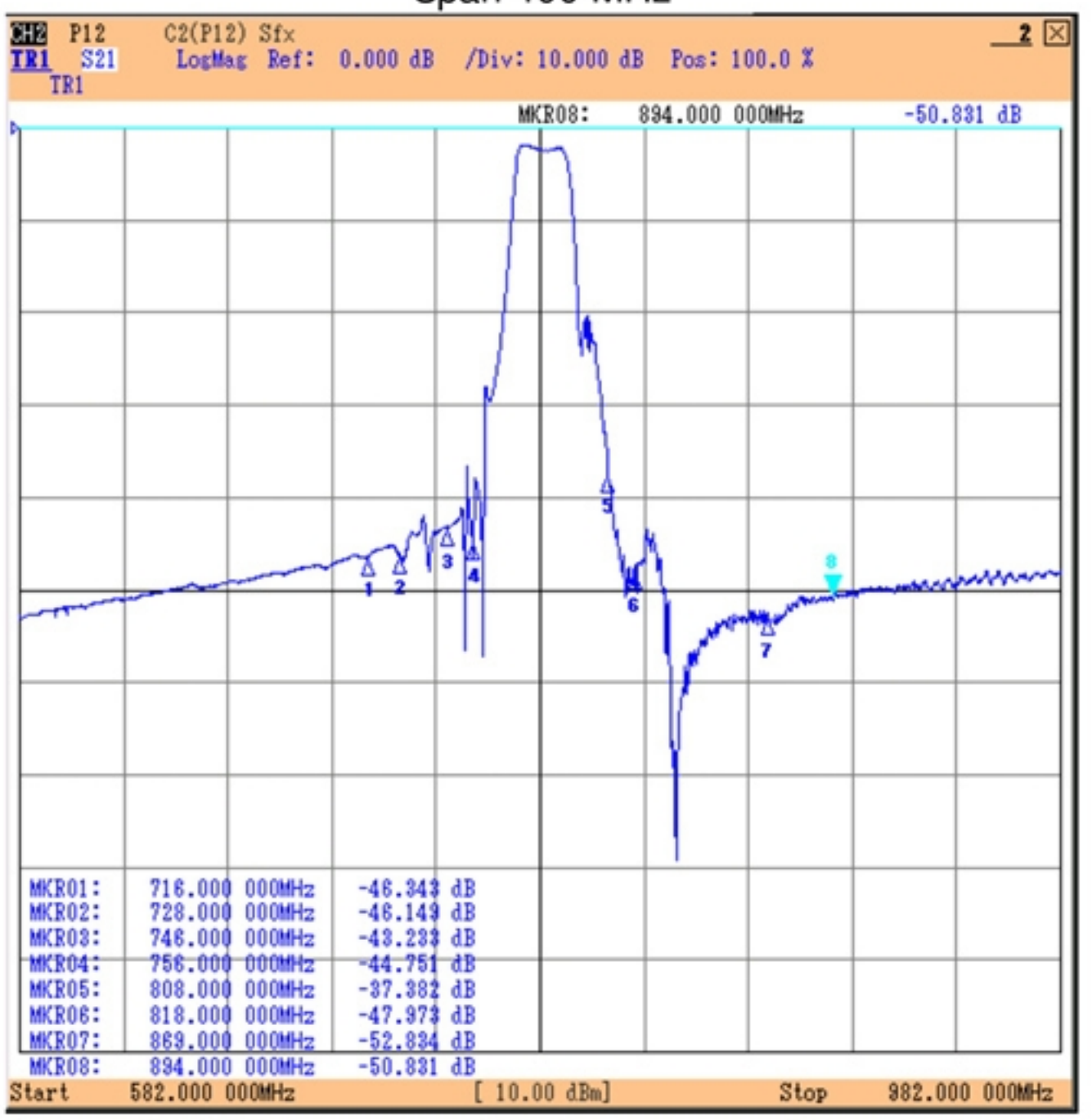
Others: Ground

E. PCB Footprint:

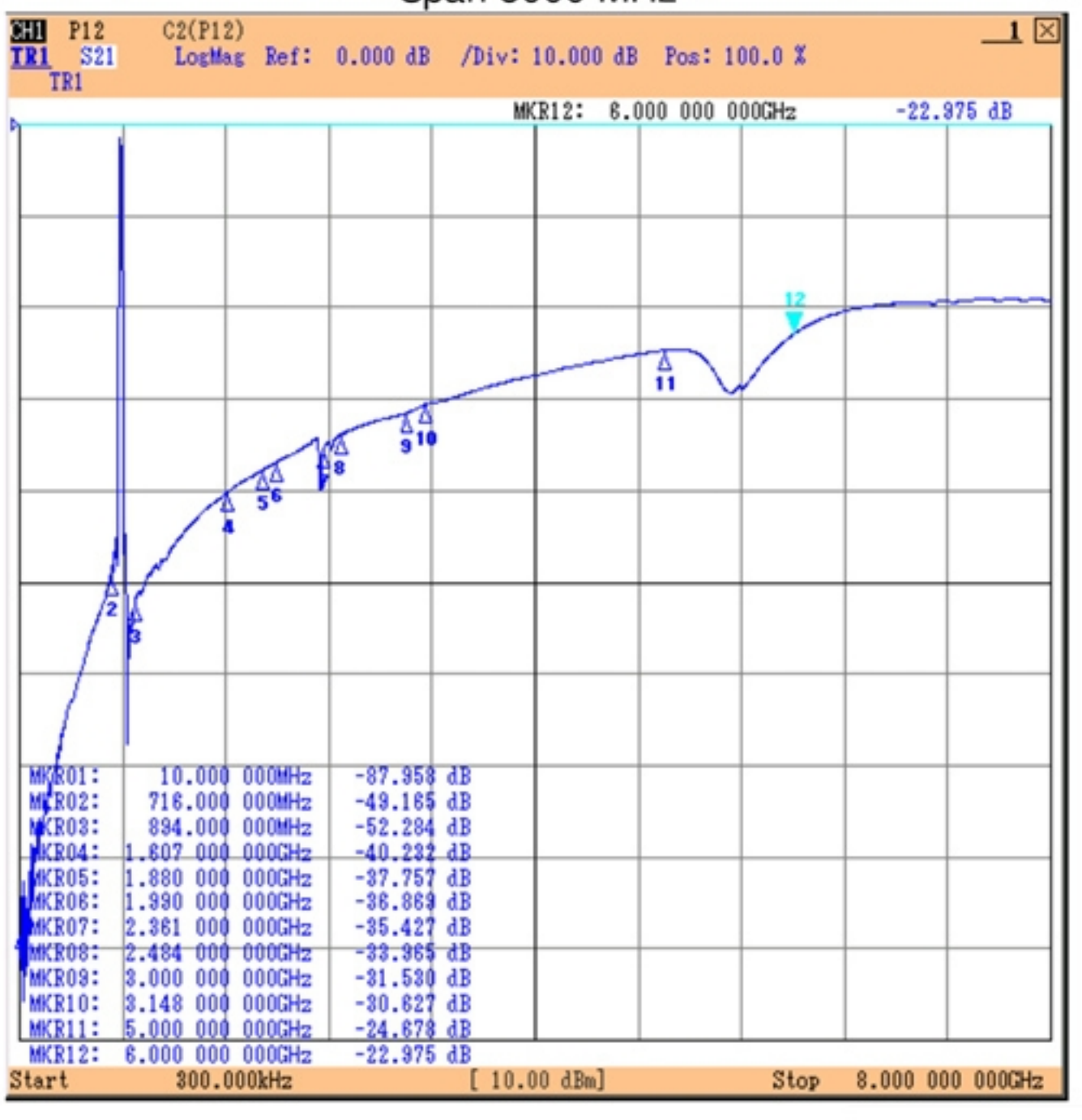


F. Frequency Characteristics:

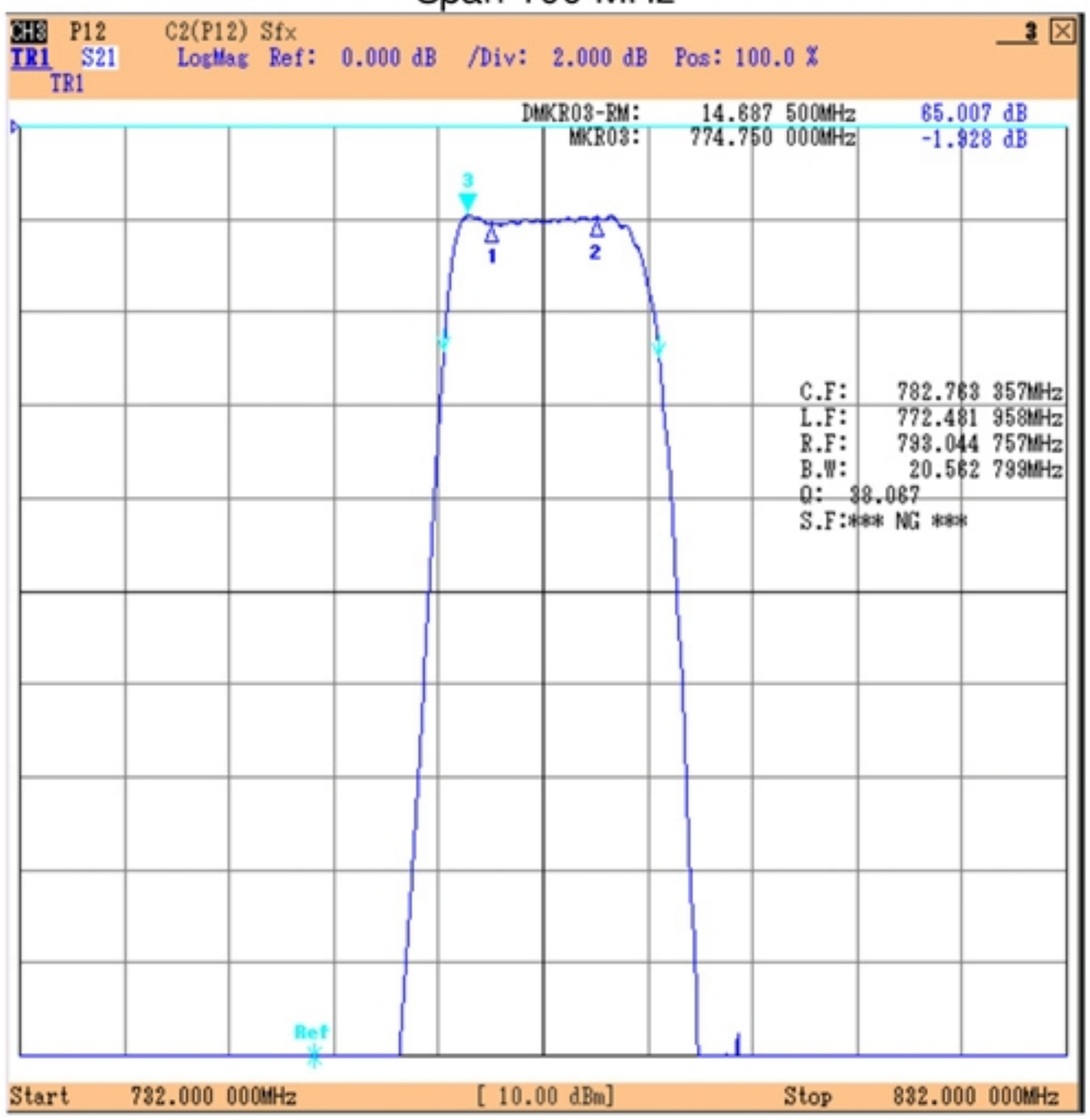
Span 400 MHz



Span 8000 MHz



Span 100 MHz



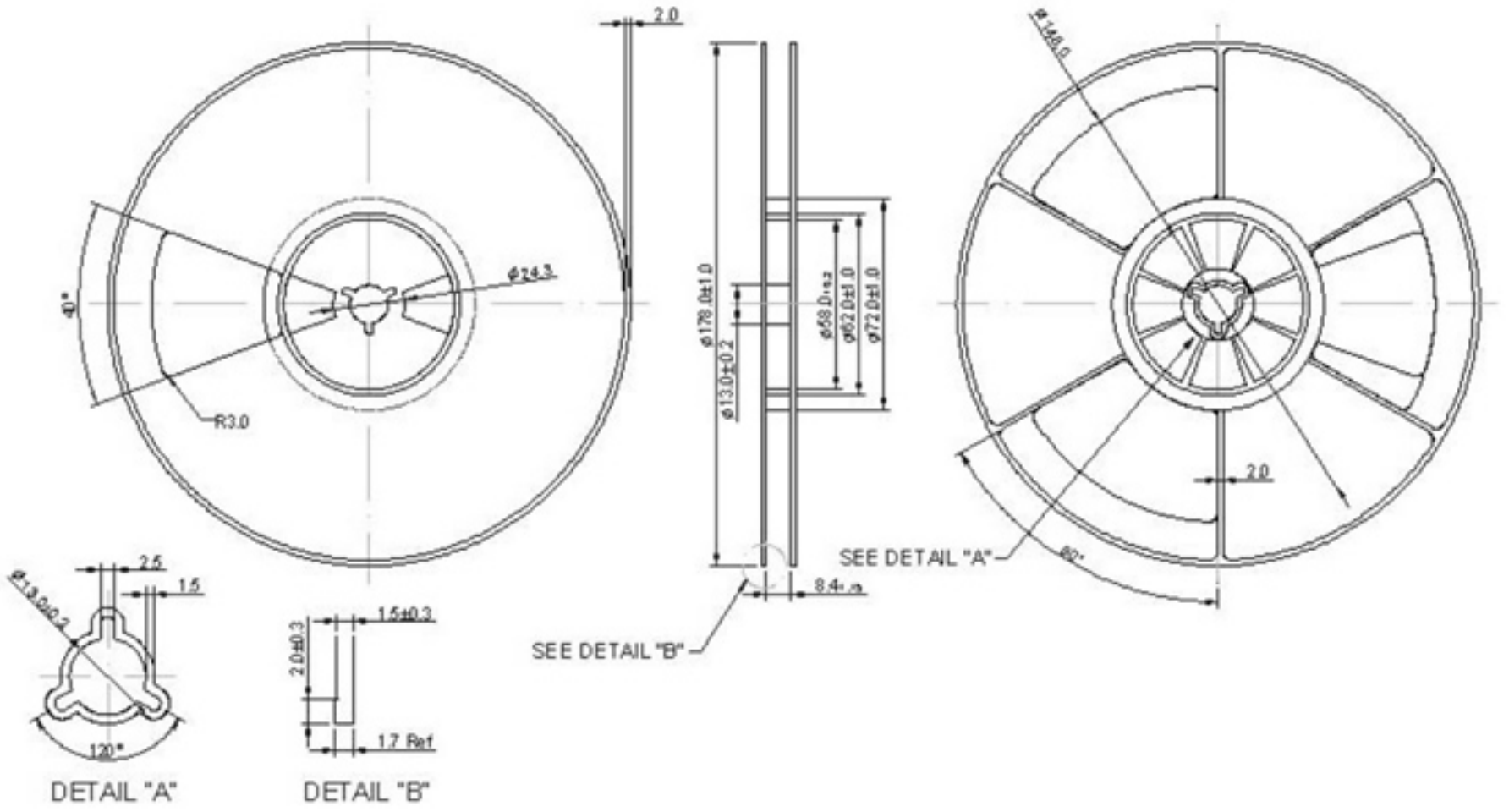
Reflection Functions:

Span 100 MHz

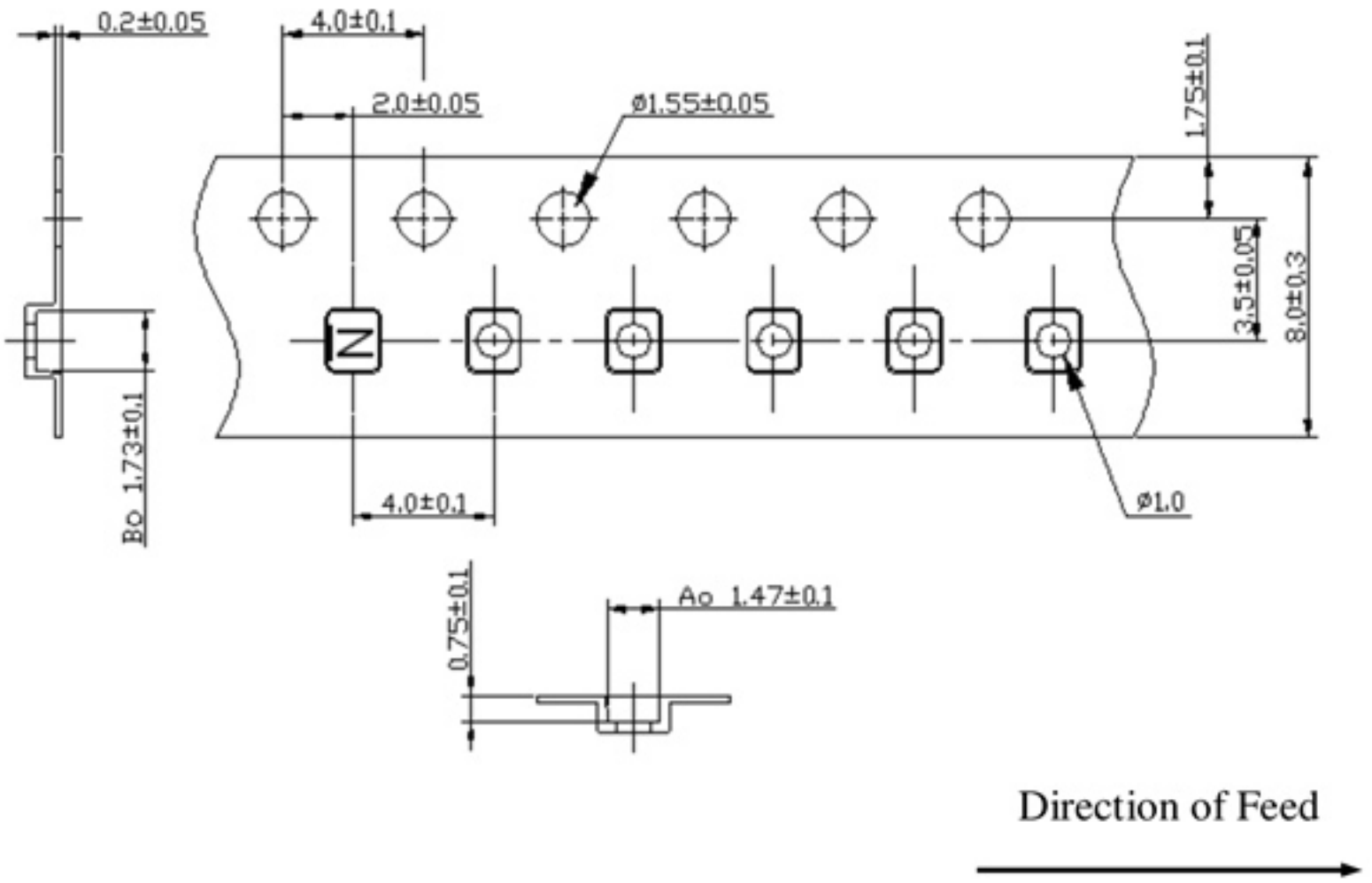
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.